

SUSTAINABILITY AND THE SEMINAR SERIES

Living Walls / Living Roofs

Date: Thursday, Sept 10th , 2009
Time: 5:30 p.m. - 7:30 p.m.
Location: Lambton College - 1457 London Road, Sarnia, ON
Room: N105 (south entrance of the college)
Cost: **Free**

Introduction

Maike Luiken, Ph.D., Chair, IEEE London Section,
Dean, Sustainability, Business Development &
Applied Research

Keynote

Living Walls / Living Roofs

Keynote Speaker

Alan Darlington, President of Nedlaw

Q & A—General Discussion

Beverages will be provided



www.bluewatersustainabilityinitiative.com

www.nedlaw.ca

london.ieee.ca

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Abstract

The active living walls is an interior plantscape is an exciting new approach to sustainable building design. It represents the hybridization of science and art to deal with real problems of indoor air quality in an aesthetic and sustainable manner.

The approach is the result of over 15 years of research at the University of Guelph. At first glance, the biofilters appears as a vertical hydroponic green wall containing a wide range of foliage and flowering plants specifically selected for each site. However, the plant wall is actually an integrated part of the handling system for the building, Air is actively forced through the wall of plants and highly specialized biological components actively degrade pollutants such formaldehyde and benzene in the air into their benign constituents of water and carbon dioxide. The clean air is then distributed throughout the building.

The seminar will discuss the science behind the technology, present results on its effectiveness and give examples of recent installations including those in the Sarnia-Windsor area.

Bio

Alan Darlington was awarded his PhD (with Distinction) investigating the interaction between plants and their physical environment from the University of Guelph and has over 20 years experience in the area of plant-environment interactions. Alan has received a number of awards for academic and entrepreneurial accomplishments and is the 'inventor' of a number of patents integral to the application of plant based biofilters to the indoor space which has been his area of interest since 1994.

In 2005, he was named by *Outdoor Magazine* as one of the 25 top true believers in the environmental movement for his work with plant walls. He still is active in the research community as an Adjunct Professor at the University of Guelph investigating the use of air biofilters in occupied spaces ranging from the mining industry to space applications.

